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[1. H-SB014.2-002: Automatic Detection and Patching of Vulnerabilities in Embedded Systems](#)

Release Date: 04-01-2014 Open Date: 04-17-2014 Due Date: 05-21-2014 Close Date: 05-21-2014

OBJECTIVE: AMENDED TOPIC (as of May 1, 2014): Develop innovative techniques to rapidly and automatically detect and automatically patch vulnerabilities in complex networked, embedded systems while offline. This offline analysis and data-mining of features of large firmware image populations enables identification of vulnerabilities in the firmware of embedded devices, to support ...

SBIR Department of Homeland Security

[2. H-SB014.2-003: Development of Cost-Effective Iterative Computing Platforms for Computed Tomography \(CT\)-based Explosive Detection Equipment](#)

Release Date: 04-01-2014 Open Date: 04-17-2014 Due Date: 05-21-2014 Close Date: 05-21-2014

OBJECTIVE: Develop a cost-effective reconstruction computing platform to perform iterative reconstruction for computed tomography (CT)-based explosive detection systems.

DESCRIPTION: All fielded computed tomography (CT)-based explosive detection systems (EDS) in the United States create images using analytic reconstruction methods such as filtered back-projection or the direct Fourie ...

SBIR Department of Homeland Security

3. H-SB014.2-004: Radiant Laser Exposure Monitoring for Nominal Hazard Zone (NHZ) Evaluation

Release Date: 04-01-2014 Open Date: 04-17-2014 Due Date: 05-21-2014 Close Date: 05-21-2014

OBJECTIVE: Develop a portable monitoring system that directly measures laser exposure relative to Maximum Permissible Exposure (MPE) limits for the evaluation of established Normal Hazard Zones (NHZs) for eye safety considerations. **DESCRIPTION:** The safe use of laser-based technologies to solve numerous challenges faced by the Department of Defense (DoD) and the Department of Homeland ...

SBIR Department of Homeland Security

4. H-SB014.2-005: Status Indicator for Downed Power Lines

Release Date: 04-01-2014 Open Date: 04-17-2014 Due Date: 05-21-2014 Close Date: 05-21-2014

OBJECTIVE: Develop an indicator, visual or otherwise, for electric power distribution cables that allow nearby personnel to determine whether a downed power line is energized or not, creating a safer environment and facilitating a more rapid recovery following an event. **DESCRIPTION:** The impact of severe weather events on critical infrastructure can have devastating impacts. With rega ...

SBIR Department of Homeland Security

5. H-SB014.2-006: Field Detection and Analysis for Fire Gases and Particulates

Release Date: 04-01-2014 Open Date: 04-17-2014 Due Date: 05-21-2014 Close Date: 05-21-2014

OBJECTIVE: Develop a hand-held or "man portable" device that will detect and quantify levels of toxic gases, vapors, and particulates commonly found in the post-fire environment. **DESCRIPTION:** Fire Investigators and other First Responders involved in a post-fire investigation require the ability to detect, monitor, and analyze the potential hazard fire gases and particulates ...

SBIR Department of Homeland Security

6. H-SB014.1-001: Mobile Footprint Detection

Release Date: 12-03-2013 Open Date: 12-18-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

For details, please refer to the solicitation details located at FedBizOpps website.

SBIR Department of Homeland Security

7. H-SB014.1-002: Mass Delivery of Countermeasures to High Consequence

[Diseases \(HCD\) in Wildlife](#)

Release Date: 12-03-2013 Open Date: 12-18-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

For details, please refer to the solicitation details located at FedBizOpps website.

SBIR Department of Homeland Security

8. [H-SB014.1-003: System Simulation Tools for X-ray based Explosive Detection Equipment](#)

Release Date: 12-03-2013 Open Date: 12-18-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

For details, please refer to the solicitation details located at FedBizOpps website.

SBIR Department of Homeland Security

9. [H-SB014.1-004: Physiological Monitoring and Environmental Scanning Technology](#)

Release Date: 12-03-2013 Open Date: 12-18-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

For details, please refer to the solicitation details located at FedBizOpps website.

SBIR Department of Homeland Security

10. [H-SB014.1-005: Machine-to-Machine Architectures to Improve First Responder Communications](#)

Release Date: 12-03-2013 Open Date: 12-18-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

For details, please refer to the solicitation details located at FedBizOpps website.

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